

Appln No. 10/790,993

Amdt date November 12, 2004

Reply to Office action of August 20, 2004

Amendments to the Specification:

Please replace the paragraphs beginning on page 2, lines 19 through 37, with the following rewritten paragraphs:

In order to accomplish the above object, according to the first aspect of the present invention, there is provided a radar comprising a mixer that mixes a transmitted signal and a received signal, and an A/D converter that analog-to-digital converts an output signal of the mixer. The radar further comprises: a ~~removing~~ processing unit for removing a dc voltage component by subtracting a predetermined removal voltage value from output data of the A/D converter, and ~~an analyzing unit~~ for Fourier-transforming data, that has the dc voltage component thereof removed by the ~~removing~~ processing unit, so as to analyze the data.

According to the second aspect of the present invention, preferably, the radar in accordance with the first aspect has a bias voltage application circuit included as a stage preceding the A/D converter. The ~~removing~~ processing unit uses a measurement of a voltage at a dc voltage source, which is employed by the bias voltage application circuit, as the removal voltage value.

Please replace the paragraphs beginning on page 3, lines 13 through 37, with the following rewritten paragraphs:

Moreover, according to the fifth aspect of the present invention, preferably, the ~~removing~~ processing unit included in the radar in accordance with the first aspect calculates the

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removal voltage value on the basis of the output data of the A/D converter.

Moreover, according to the sixth aspect of the present invention, preferably, the ~~removing~~ processing unit included in the radar in accordance with the fifth aspect calculates the removal voltage value as an average of output data items of the A/D converter.

Moreover, according to the seventh aspect of the present invention, preferably, the ~~removing~~ processing unit included in the radar in accordance with the sixth aspect applies a window function to the data items that have the average subtracted therefrom. The ~~removing~~ processing unit calculates a second average by averaging the data items that have the window function applied thereto, and subtracts the second average from the data items that have the window function applied thereto.

Moreover, according to the eighth aspect of the present invention, preferably, the ~~removing~~ processing unit included in the radar in accordance with the first aspect performs digital filtering on the data items that have been treated by the ~~removing~~ processing unit so as to remove a low-frequency component.